

What is claimed is:

1. A process for preparing a concentrate in liquid or liquid-disperse form, comprising
  - I) from 5 to 80% by weight of a polymer obtainable by free-radically polymerizing acryloyldimethyltaurine and/or acryloyldimethyltaurates [component A)] in the presence of one or more substances selected from one or more of the components D) to G), and optionally additionally in the presence of one or more further substances, component
  - D) consisting of at least monofunctional silicon-containing substances capable of free-radical polymerization,
  - E) consisting of at least monofunctional fluorine-containing substances capable of free-radical polymerization,
  - F) consisting of olefinically mono- or polyunsaturated, optionally crosslinking macromonomers which each have at least one oxygen, nitrogen, sulfur or phosphorus atom and a number-average molecular weight greater than or equal to 200 g/mol, the macromonomers not being silicon-containing substances as per component D) or fluorine-containing substances as per component E), and
  - G) consisting of polymeric additives having number-average molecular weights of from 200 g/mol to  $10^9$  g/mol,
  - II) from 20 to 95% by weight of an organic solvent or solvent mixture,
  - III) from 0 to 60% by weight of an emulsifier, and

IV) from 0 to 30% by weight of water,

which comprises

a) effecting the polymerization of acryloyldimethyltaurine and/or acryloyldimethyltaurates in the presence of at least one substance or a plurality of substances selected from one or more of the components D) to G) and optionally additionally in the presence of one or more further substances by a free-radical polymerization reaction in a polymerization medium which behaves very substantially inertly with respect to free-radical polymerization reactions and permits the formation of high molecular weights,

b) adding a higher-boiling solvent or solvent mixture, and also optionally emulsifier and/or water to the mixture of polymer and polymerization medium obtained from step a), the boiling point of the higher-boiling solvent or solvent mixture added being at least 10°C higher than that of the polymerization medium used for the polymerization, and

c) removing the lower-boiling polymerization medium, optionally at a pressure which is reduced compared to atmospheric pressure.

2. The process as claimed in claim 1, wherein the further substances are selected from further at least monofunctional comonomers capable of free-radical polymerization or polymeric additives.

3. The process as claimed in claim 2, wherein the further substances are comonomers capable of free-radical polymerization and are selected from

a) further olefinically unsaturated, noncationic, optionally crosslinking comonomers which have at least one oxygen, nitrogen, sulfur or phosphorus atom and have a molecular weight of less than 500 g/mol, and

b) further olefinically unsaturated, cationic comonomers which have at least one oxygen, nitrogen, sulfur or phosphorus atom and a molecular weight of less than 500 g/mol.

4. The process as claimed in one or more of claims 1 to 3, wherein the polymer present in the concentrate contains from 20 to 99.5% by weight, based on the total mass of the polymer, of acryloyldimethyltaurine and/or its salt.

5. The process as claimed in one or more of claims 1 to 4, wherein the concentrate contains from 20 to 60% by weight, based on the total mass of the concentrate, of polymer.

6. The process as claimed in claim 5, wherein the concentrate contains from 30 to 40% by weight, based on the total mass of the concentrate, of polymer.

7. The process for preparing a concentrate as claimed in one or more of claims 1 to 6, wherein the concentrate contains from 30 to 80% by weight, based on the total mass of the concentrate, of emulsifier and/or solvent.

8. The process as claimed in claim 7, wherein the concentrate contains from 40 to 60% by weight, based on the total mass of the concentrate, of emulsifier and/or solvent.

9. The process as claimed in one or more of claims 1 to 8, wherein the concentrate contains from 0 to 10% by weight, based on the total mass of the concentrate, of water.

10. The process as claimed in claim 9, wherein the concentrate contains

from 0 to 5% by weight, based on the total mass of the concentrate, of water.

11. A concentrate obtainable by a process as claimed in one or more of claims 1 to 10.

12. A cosmetic, pharmaceutical or dermatological preparation comprising a concentrate as claimed in claim 11.

13. The preparation as claimed in claim 12, which is in the form of an oil-in-water emulsion.